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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/862,973	05/22/2001	John H. Westerbeke JR.	00637-025001 9803		
26161 75	90 07/03/2003	•			
FISH & RICHARDSON PC		EXAMINER			
225 FRANKLII BOSTON, MA			BENTON, JASON		
			ART UNIT	PAPER NUMBER	
			3747	1)	
			DATE MAILED: 07/03/2003	3	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	No.	Applicant(s)			
		09/862,973		WESTERBEKE, JOHN H.			
		Examiner		Art Unit			
		Jason Bento		3747			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)□ F	Responsive to communication(s) filed on	ı					
2a) <u></u> □ T	This action is FINAL . 2b)⊠	This action is no	on-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition							
4)⊠ Cl	laim(s) <u>1-18</u> is/are pending in the applic	ation.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-18</u> is/are rejected.							
7)□ Cl	7) Claim(s) is/are objected to.						
,	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2.	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) D Notice o	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-94 tion Disclosure Statement(s) (PTO-1449) Paper N	8) 5)		rry (PTO-413) Paper No(s) I Patent Application (PTO-152)			
U.S. Patent and Trade PTO-326 (Rev. (ice Action Summary		Part of Paper No. 11			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 8-12, 14, 15, 17, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Pluequet.

The patent by Pluequet (4,463,709) shows an exhaust manifold cooling jacket to be attached to a cylinder head of a combustion engine. A cavity (between surfaces of 2 and 4) is sized to enclose an exhaust manifold of the engine and form an insulating space between the exhaust manifold and housing. A coolant passage (5) for receiving liquid coolant from an inlet of the jacket and for flowing the coolant through the cooling jacket is provided. An exhaust passage extends between an inner manifold interface of the housing and an exhaust elbow interface surface of the housing, for forming a sealed exhaust conduit and for conducting a flow of exhaust from the exhaust manifold through the housing. The cooling jacket housing is in the form of a shell having an open side sufficiently large to permit the housing to be placed about the exhaust manifold of the engine with the exhaust manifold mounted upon the cylinder head. The open side of the housing comprises a rim extending about the open side and lying in a single plane to form a planar block interface surface.

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The rim of the housing is arranged to be coplanar with a block interface surface of the exhaust manifold as attached to the cylinder head, for engaging a backing plate (8a) mounted between the cylinder head and exhaust manifold and extending laterally beyond the exhaust manifold (Fig. 3).

The housing is in the form of a unitary casting.

The housing further defines at least one mounting hole (3a) extending through the housing adjacent the exhaust passage and arranged to align with a mounting hole on the exhaust manifold, for receiving a threaded fastener to attach the housing to the cylinder head via the exhaust manifold.

The cooling jacket is constructed to isolate the liquid coolant from any direct contact with the exhaust manifold.

The insulating space is filled with air and isolated from the flow of the exhaust

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pluequet.

The patent by Pluequet shows support fasteners (6) where the cooling jacket housing directly contacts the exhaust manifold. It is the view of the examiner that the fastening device is a supplementary fastening device and is not required. Therefor, it is

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viewed by the examiner that the addition or exclusion of additional fasteners is a choice of design because no new or unexpected results were achieved by the withdrawal of the fastener.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pluequet.

The patent by Pluequet shows multiple coolant passages having a U-shaped cavity extending across the broad face of the housing and into multiple sides of the housing. The combination of the U-shaped cavities form an overall cup-shaped coolant jacket. It is the view of the examiner that the patent by Pluequet has supplemental ribs for strength separating the U-shaped passages. The ribs are viewed as not being vital to the patent, therefor it is the view of the examiner that the addition or exclusion of structured ribs in the cooling jacket for strength is a choice of design based on cost and strength considerations, because no new or unexpected results are achieved by the addition or exclusion of the ribs.

Claims 7 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plueguet in view of Takahashi et al.

The patent by Pluequet does not show a coolant outlet extending from the coolant passage through the exhaust elbow interface surface adjacent the exhaust conduit. It is the view of the examiner that it is well known in the art to provide coolant ports for coolant jackets around exhaust manifolds, to be adjacent the exhaust conduit. The patent by Takahashi et al. (5,873,330) shows a coolant jacket about an exhaust manifold. The method of providing coolant to the coolant jacket is through the exhaust elbow interface surface adjacent the exhaust conduit (Fig. 11). In view of Takahashi, it

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would have been obvious to anyone skilled in the art who wanted to provide coolant to a

coolant jacket to improve on Pluequet by providing a coolant passage through the

exhaust elbow interface surface adjacent the exhaust conduit.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over

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Pluequet.

It is the view of the examiner that the material located in the insulating space is a

choice of design because no new or unexpected results are achieved from varying the

material in the insulating space.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jason Benton whose telephone number is (703) 305-

6800. The examiner can normally be reached on flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Yuen can be reached on (703) 308-1946. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 872-9302

for regular communications and (703) 872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-305-

6800-1.

Supervisory Patent Examiner

Group 3700

June 29, 2003